

Book #1, Dr. 14-A

Preliminary

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Preliminary Survey

NINETEENTH AVENUE

North St. Paul.

From..... To.....

Road Acc't. No.

Date Filed.....1927.....

File.....

of Ramsey Co. Engineer
ST. PAUL, MINN.

Date Filed.....3-7-27.....

File No.....12.....

Proj. # 27-00.

19th Ave. N.E. (N. St. Paul)

Alignment from Sta. 0+00
to Sta. 24+26¹³

Received 2-24-27
[Signature]

Office of Ramsey Co. Engineer	
ST. PAUL, MINN.	
Date Filed	3-7-27
File No.	12

Sta.	Point	Δ Lt.	Δ Rt.	Calc. Bearing	Mag. Bearing
------	-------	--------------	--------------	------------------	-----------------

3+66 ⁰	P. I.				
-------------------	-------	--	--	--	--

			88°-52'		
--	--	--	---------	--	--

				N. 89°-52' E.	
--	--	--	--	---------------	--

					N. 81°-42' E.
--	--	--	--	--	---------------

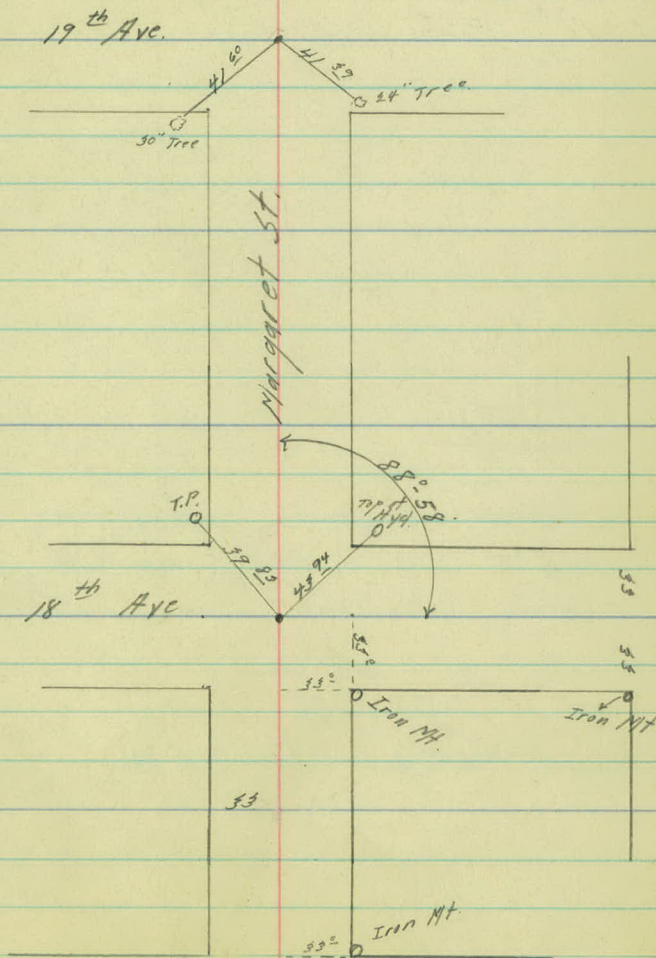
				N. 01°-00' E.	
--	--	--	--	---------------	--

					N. 07°-30' W.
--	--	--	--	--	---------------

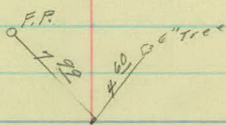
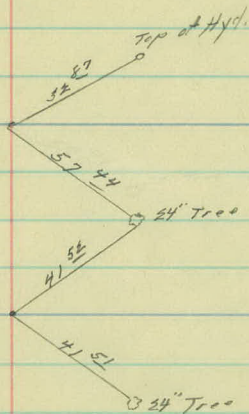
0+00					
------	--	--	--	--	--

Fair.

1-16-27
P.J. Crane
A.M.
E.F.
E.M.G.



Sta.	Point	Δ Lt.	Δ Rt.	Cale. Bearing	Mag. Bearing
12+94 ⁹²	P.T. ✓			N 89°-52'E.	N 81°-22'E.
12+31 ⁹²	P.I.	60°-39'			Δ -60°-39'L.
					D-44°-10'
					T.-77 ⁷⁹ ✓
					L.-140 ⁷⁹ ✓
11+54 ¹³	P.R.C. ✓				R-133° ✓
				5.29°-29'E.	5.37°-59'E.
11+43 ⁰⁴	P.I.		131°-35'		Δ -131°-35'R.
					D-38°-04'
					T.-341° ✓
					L.-352 ⁰⁹ ✓
8+02 ⁰⁴	P.R.C. ✓				R.-153 ³¹ ✓
				N 15°-56'E.	N 10°-26'E.
7+68 ⁹²	P.I.	70°-56'			Δ -70°-56'L.
					D-105°-04' ✓
					T.-44 ⁸⁸ ✓
					L.-78° ✓
7+24 ⁰⁴	P.C. ✓				R.-63° ✓
				N 89°-54'E.	



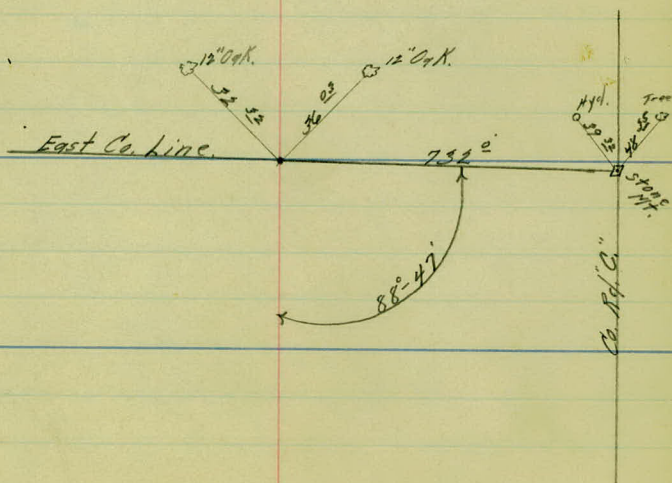
Sta.	Point	Alt.	A. Rt.	Calc. Bearing	Mag. Bearing
------	-------	------	--------	---------------	--------------

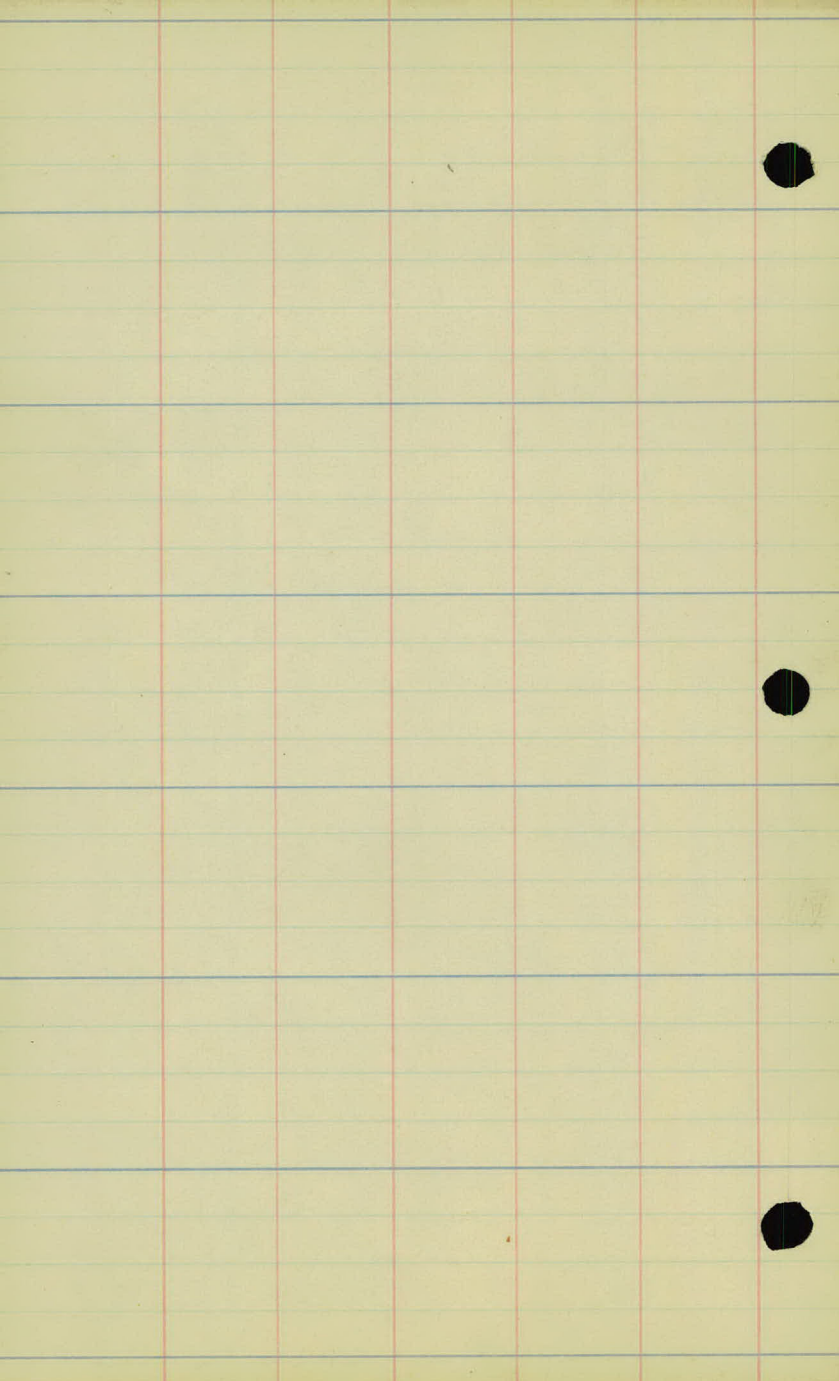
24+26¹³ P.O.T.

N. 89° 54' E.

N 81° 22' E.

2-18-27





Proj # 27+00

19th Ave.

Art. Topog. from Sta 0+00
to Sta. 25+00.

+50

1+00

+50

0+00

-50

-1+00

P. J. Crane
A. M.
E. F.
E. M.

Sta. 1+50.

+40-10"-T-23

+24-8"-T-23

+10-10"-T-22

+95-12"-T-23 Conc. Tile Walk 4" Wide →

+80-6"-T-22

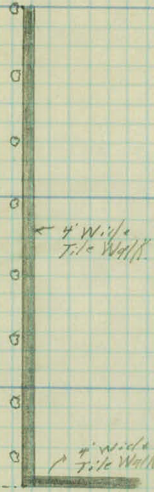
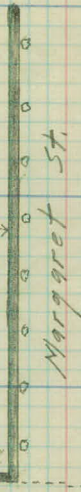
+65-12"-T-22

+50-8"-T-22

+36-12"-T-22

+32 T.P. 23

+27 Side Walk 27" (4" wide) Walk



+50-10"-T-20

+32-6"-T-23

+15-6"-T-23

+98-8"-T-23

+80-6"-T-23

+75 P.P. 23

+63-12"-T-23

+46-6"-T-23

+33 I.P. 22

+32-8"-T-24

+25 Side Walk 27"

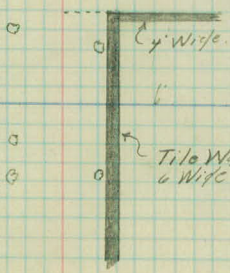
18th Ave

+18 Hyd 39

-17-6"-T-24

-59 T.P. 23

-67-6"-T-23



-26⁵ Side Walk 25"

-27 P.P. 23

-56-8"-T-24

-68-10"-T-24

+50

4+00

+50

3+00

+50

2+00

+50

2' X 2' X 5'
Brick
Pillar

+50

7+00

+50

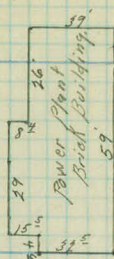
6+00

+50

5+00

+50

574. 7+50



+24 Power Plant 19

+05 Power Plant 19

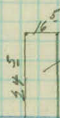
+24 C. Road

+10 C. Road 48

+42 Road 11

+34 P.P. 31

Road 4



+24-18"-T-27

+23 Building 32

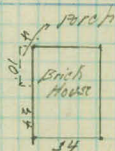
Silver Lake Camp

+99 Building 32

+82-14"-T-26

+68-16"-T-26

+40 House 48



+10 P.P. 36

+15 House 48

+01-14"-T-27

+67-36"-T-21

750

10700

750

9700

750

8700

750

Sta. 10 to 50.

+34-18"-T-58

+32-18"-T-5'

+49 P.P. 31
+19-24"-T-54

+78 Q. Road.

+54-14"-T-18

+53-14"-T-35

+34 Q. Road 7

+00 Q. Road 14

+91-16"-T-39
+90 Road 16

+79-10"-T-34

+67-78"-T-42

+50 Q. Road 33

+40 Triple T. 7

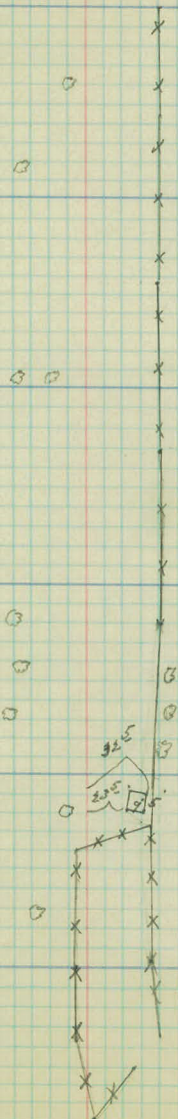
+50 F. 8
+50 F. Cor. 6
+14-36"-T-28
+02 Q. Road 68

+02 F. 7

+96-6"-T. Q.

+82 F. 7
+69 P.P. 14
+21 P.P. 21

Silver Lake Park



+30-12"-T-17
+22 F. 41
+20-24"-T-21
+17-14"-T-19
+14-54"-T-19
+11-24"-T-31
Q. Road 4'

+78 F. 40.

+34 F. 40

+10 P.P. 39

+90 F. 39

+47 Out House 32

+40 Out House 23.5

+57 F. Cor. 34

+02 F. 36

+10-6"-T-C

+06-6"-T-3'
+00 Plum Tree 10

+76 F. Cor. 25

+00 F. Cor. 1 R

+50

13 +00

+50

12 +00

+50

11 +00

+50

5 ft 13 ft 50.
 +53-8"-T-31
 +53-16"-T-7
 +58-14"-T-8
 +37-12"-T-32
 +31-20"-T-12
 +16-10"-T-8
 +06-14"-T-12
 +03-8"-T-20

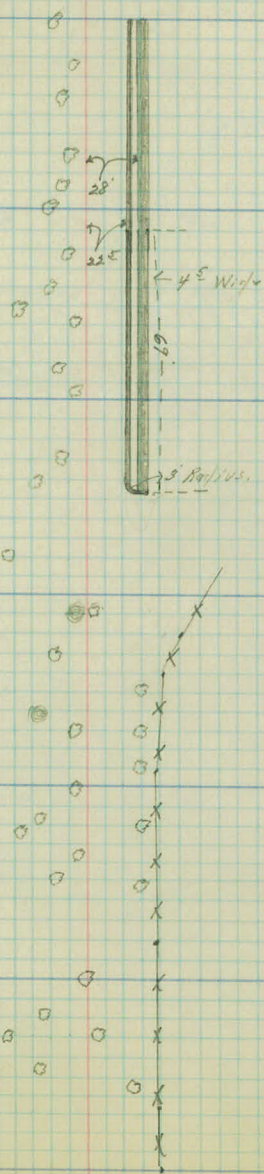
+89-24"-T-9
 +82-8"-T-20
 +76-14"-T-51
 +76-14"-T-35
 +72-24"-T-6
 +58-12"-T-16
 +57-16"-T-5

+37-14"-T-12
 +30-16"-T-28
 +23 P.P. 3'
 +21-14"-T-48

+90 Lilac Bush 7
 +84-20"-T-15
 +68 Bush 23
 +64-12"-T-4
 +54-14"-T-17
 +49-24"-T-3
 +43-14"-T-27
 +38-14"-T-34
 +33-10"-T-5
 +36 P.P. 23
 +25-8"-T-15

+20-24"-T-6
 +92-16"-T-22
 +86-10"-T-43
 +77-18"-T-24

Silver Lake Park



+25-4"-T-36
 +02 Ever Green 39
 +00 E. Road 12
 +95 Side Walk 28
 +95 Curve 22.5
 4" Curve
 +92 Ever Green 39
 +60 E. Road 16

+24 E. Road 33
 +00 E. Road 34
 +97-30"-T-1
 +90 F. 50
 +90 Road 26
 +80 F. 44
 +76-20"-T-32
 +66-T.P. 2
 +66-14"-T-31
 +55-12"-T-30
 +54 F. 38
 +54 E. Road 20

+40-16"-T-31
 +34-16"-T-31
 +10 F. 38
 +16 E. Road 21

+84-40"-T-7
 +79-12"-T-29
 +66 F. 40
 +60 E. Road 15

+50

16 +00

+50

15 +00

+50

14 +00

+50

Fair

319-16-T-50
+47-16-T-18

+36 P.P. 27
+33-14-T-16

+24-16-T-21
+21-18-T-18
+07-18-T-20

+00-8-T-7

+84-8-T-6

+81-16-T-29

+62-20-T-7

+46-12-T-7
+43-6 Birch 34

+31-14-T-8

+24-16-T-36
+16-12-T-7
+02-14-T-7

+00 P.P. 25

+35-12-T-6

+82-24-T-19

+68-12-T-4
+63-18-T-20
+50-12-T-7

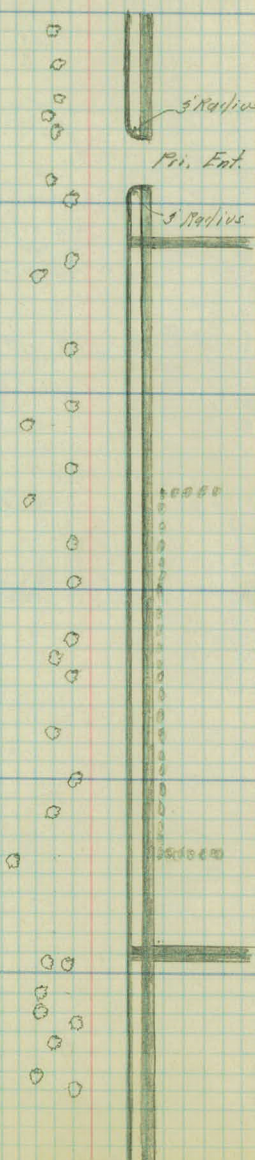
+41-24-T-20

+33-14-T-8

+29-T.W.M. T. 49
+03-16-T-20
+03-6-T-13

+00-10-T-19
+87-12-T-6
+85-P.P. 25
+23-14-T-20
+14-18-T-30
+10-14-T-8

Silver Lake Park



+10 Corp 23

+17² Eog. of S.W. 1/4 28²

Pri. Ent.

+05² End of W. 1/4 28²

+00 R. Road 14

+73 & Side W. 1/4
4² W. 1/4
+95 Corp 23²

+36 Ent. Hedge 34

+00 R. Road 13
+00 Corp 25²
+00 Side W. 1/4 28²

+29 Hedge 34

+05 & 4 Side W. 1/4
+00 R. Road 12

+00 Side W. 1/4 28

+00 Corp 22²

+50

19 +00

+50

18 +00

+50

17 +00

+50

Sta. 19450

+41 P.P. 22

+32-10"-T-27

+17-10"-T-27

+09-12"-T-17

+00-12"-T-27

+82-12"-T-27

+67-10"-T-27

+49-12"-T-27

+33-12"-T-26

+19-10"-Stump 21

+13-10"-T-28

+04-12"-T-16

+90 P.P. 20

+89-16"-T-12

+85 Guy 19/11

+67 Triple T. 15

+63-12"-T-28

+34-16"-T-35

+18- Triple T. 15

+04-12"-T-16

+02-10"-T-16

+95-10"-T-39

+97-18"-T-18

+86-20"-T-16

+67 340, m.p. 51

+66-14"-T-18

+63-12"-T-30

+52-14"-T-18

Silver Lake Park.

+46-6"-T-32

+27 T.P. 23

E. Road 9'

+98-24"-T-37

+52 T.P. 24

+48-4"-T-28

+43 Iron Mt. 33

+12 E. St. 14'

E. Road 10'

+81-6"-T-28

+76 5nd S. W. 1/4 28

+91 End of Curve 27

+94 440' 29

+63 Guy 19/11 27

E. Road 11'

+00 curb 22 3

+00 Side W. 1/4 28

+89-6"-T-27

+77 E 4 S. W. 1/4

+67-6"-T-26

+50

22 +00

+50

21 +00

+50

20 +00

+50

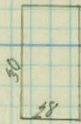
Sta. 22+50
 +50 Garage 32'
 +31 Garage 32'
 +27 Hedge 24'



Road on E.

+82 T.P. 23
 +81 Mail Box 13

+62 House 47
 +61-24"-T-35



+64 Hedge 35

+46-24"-T-34

+32 House 47

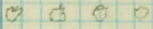
+29-20"-T-35

E. Road on E.

+95 Mail Box 18
 +83 P. 13 25

+63 E. Road 14.

+55 T.P. 21



+27-16"-T-27

+97-12"-T-27



E. Road 5'

+81-10"-T-27



+45-12"-T-27



+68-16"-T-28

+50

25+00

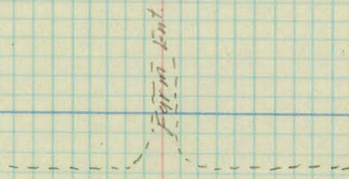
+50

24+00

+50

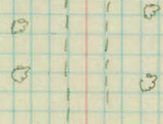
23+00

+50



Division St. N. E.

+98 I. P. 5.12
 +93 Twin T. 35
 +80 Triple T. 35



+84 Cross Prairie
 12" x 50' C.M.
 Extends 25' L. 8.278
 13 trips lt.
 Road Const.
 +93 Triple T. 35
 +92 5 pumps 2.2
 +82 P.P. 2.2

+79 Triple T. 35



+52 Triple T. 35



+28 Twin T. 35



+12 - 12" - T-35
 +10 P.P. 2.2

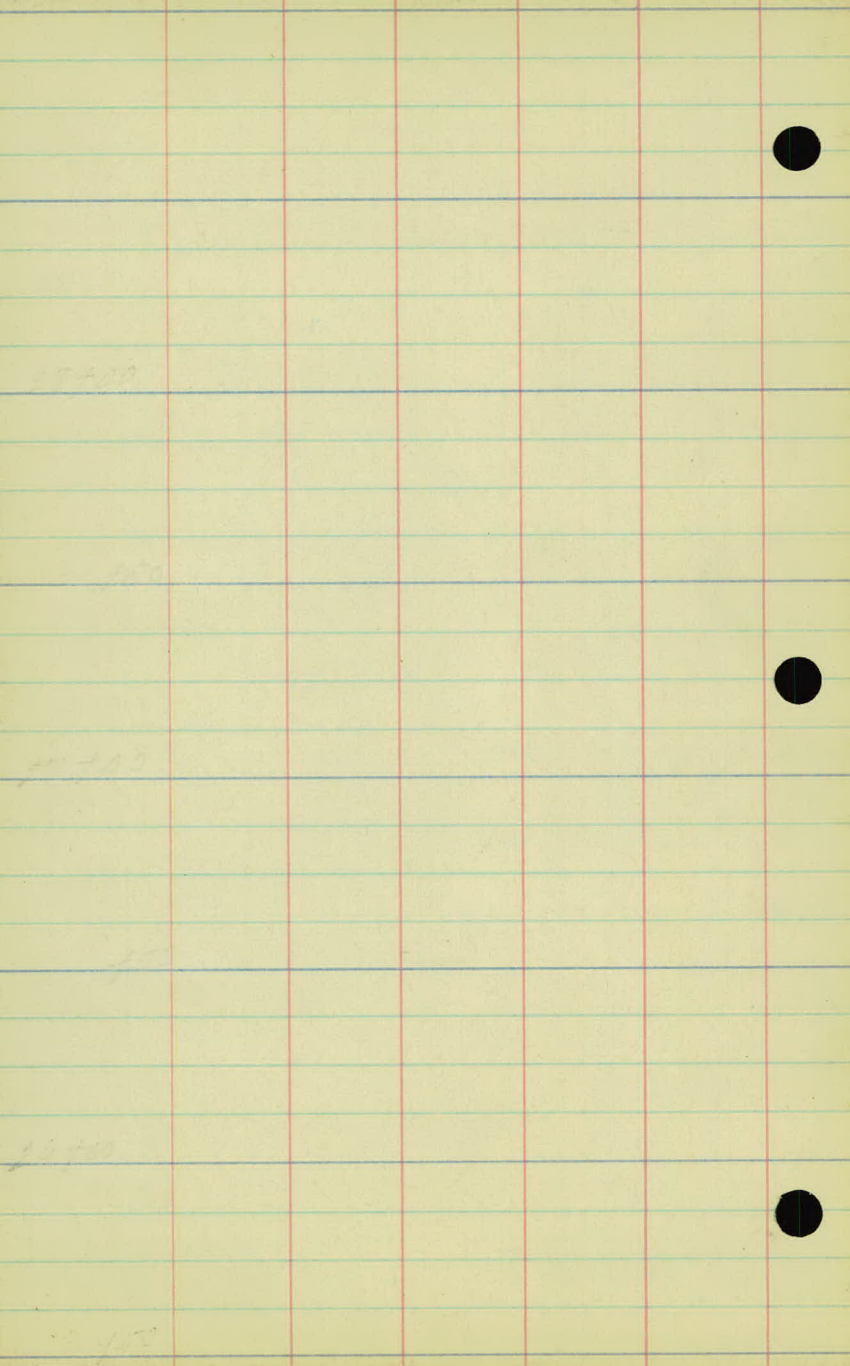
+15 - 14" - T-35

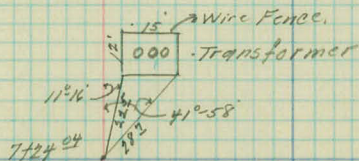
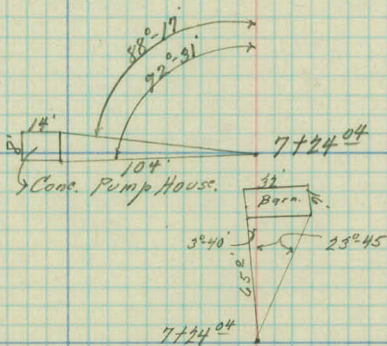
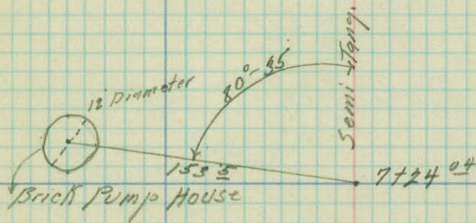
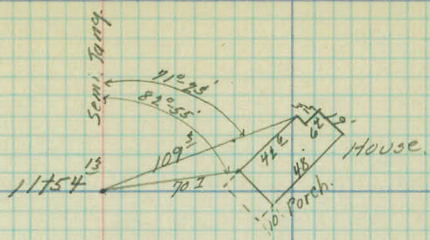


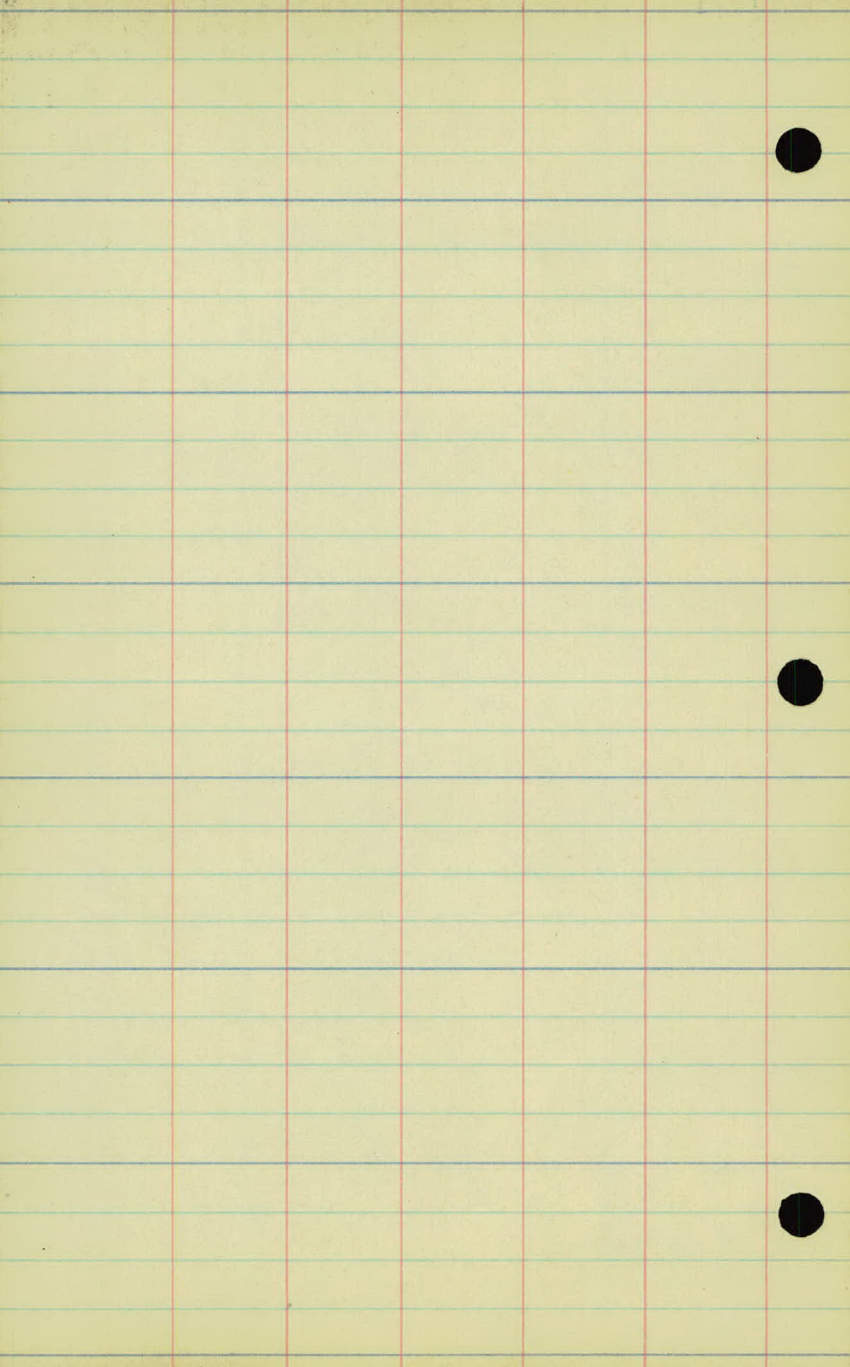
Road 2.

+67 P.P. 31

+54 Hedge 35







Proj # 27-00.

19th Ave.

Center Line Levels from
Sta. 1+00 to Sta. 24+26¹³.

Sta.	+	H.I.	-	Rod	Elev.
B.M.	2.53	1010.22		1007.69	
-3 +00				11.6	998.6
-2 +00				7.2	1001.0
-1 +00				6.7	03.5
-0 +50				5.9	04.3
0 +00	2	18 th Ave.		4.8	05.4
+50				5.2	05.0
1 +00				5.3	04.9
+50				6.4	03.8
2 +00				7.8	02.4
+50				7.1	1001.1
3 +00				11.0	999.2
+50				12.3	97.9
T. P.	7.96	1005.33	12.85	997.37	
+66	2	19 th Ave.		8.0	97.3
4 +00				8.4	96.9
+50				8.3	97.0
5 +00				7.9	97.4
+50				7.4	97.7
6 +00				7.8	97.5
+50				6.7	998.6
7 +00				4.2	1001.1
+25				3.4	01.9
+43				3.4	1001.9
+43				5.5	999.8
+82				7.8	97.5

weather.
Fair

2-21-27
P. J. Crane
F. M.
E. F.

Top of Hyd. Int. 18th Ave & Margaret St. E.M.C.

<u>5.3</u>	<u>5.2</u>	<u>5.1</u>	<u>4.8</u>	<u>5.4</u>	<u>6.1</u>	<u>7.3</u>
100	100	50	00	50	100	200

<u>10.5</u>	<u>11.0</u>	<u>9.3</u>
200	100	50

Sta.	+	H.I.	-	Rod	Elev.
		1005.53			
8 + 00				9.5	995.8
+ 50				10.0	95.3
B. M.				6.88	998.45
T. P.	4.13	999.12	10.34	994.99	
9 + 00				4.5	94.6
+ 50				5.4	93.7
10 + 00				5.3	93.8
+ 50				5.9	93.2
11 + 00				5.2	93.9
+ 50				5.1	94.0
12 + 00				5.6	93.5
+ 50				5.6	93.5
13. M.			3.13	995.99	995.99
13 + 00				5.9	93.2
+ 50				5.9	93.2
14 + 00				5.7	93.4
+ 50				5.4	93.7
15 + 00				5.1	94.0
T. P.	8.06	1002.44	4.74	994.38	
+ 50				8.7	93.7
16 + 00				8.6	93.8
+ 50				8.5	93.9
17 + 00				8.2	94.2
+ 50				7.8	94.6
18 + 00				7.4	95.0

Spk. in 30" Tree 28' H. Sta. 8 + 15. N. Side of Tree.

Rod Elev.

5.05 = Top of Curb. Beginning of Curb & S. Walk on Rt.
 5.10 = Top of Side Walk. Near Edge
 5.05 = " " " " Far Edge.

Top of Hyd. Int 19th Ave & Charles St.

Rod Elev.

6.95 Top of Curb Rt. Sta.
 6.78 Top of S. Walk Rt. Sta.
 6.83 " " " " Rt. Sta.

Sta.	+	H.I.	-	Red	Elev.
		1002.44			
+10	2	Henry St. Rt.		7.3	995.1
+50				7.2	95.2
19 +00				7.2	95.2
+50				7.5	94.9
20 +00				7.7	94.7
+50				7.7	94.7
+63	2	St. on Lt.		7.7	94.7
21 +00				7.9	94.5
+50				8.1	94.3
22 +00				8.4	94.0
T.P.	4.96	798.95	8.45	793.99	
+50				5.4	93.6
23 +00				5.6	93.4
+50				5.5	93.5
24 +00				5.2	93.8
+04		Cross Drain.		5.2	93.8
+24 ¹³		East Co. Line.		5.0	94.0
B.M.			4.99	793.96	793.95
T. P.	2.12	796.73	4.34	794.61	
B. M.			5.54	791.19	791.17

5.9	4.4	4.8
<u>50</u>	<u>100</u>	<u>200</u>

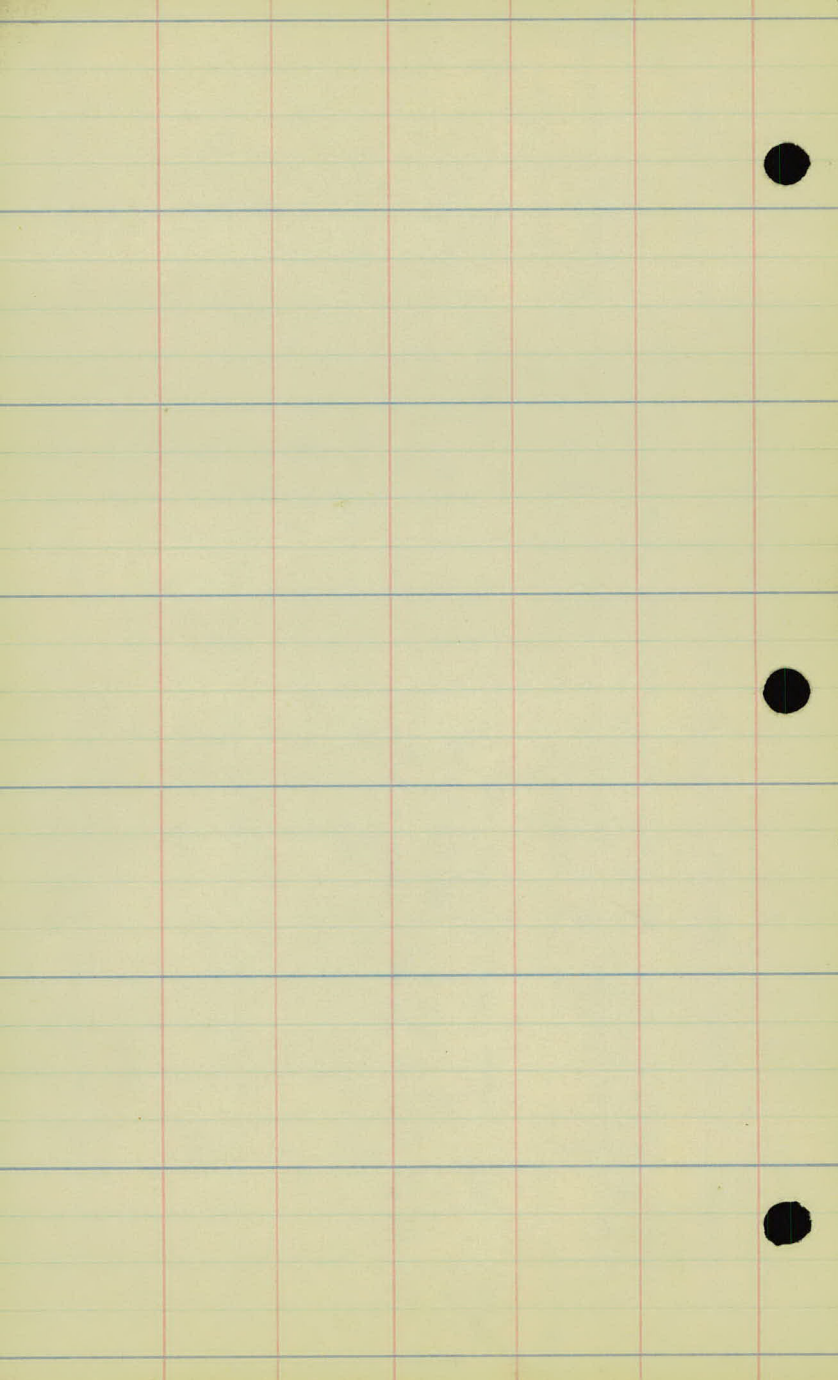
7.4	7.8	8.0
<u>100</u>	<u>100</u>	<u>50</u>

9.1	8.9	9.7
<u>100</u>	<u>100</u>	<u>25</u>
5.6	5.2	5.1
<u>100</u>	<u>100</u>	<u>50</u>

7.8	7.1	9.2
<u>27</u>	<u>100</u>	<u>200.</u>
5.0	4.6	4.4
<u>50</u>	<u>100</u>	<u>200</u>

SpK. in Twin Maypole 15' ft. Sta 23 + 93.

SpK. in T.P. Int. Coll. C. & E. Co. Line.



Proj. # 27-00

19th Ave.

x sections from Sta. 0+00
to Sta. 24+26¹³.

Sta.

Elev.

0+00

1005.4

+50

05.0

1+00

04.9

+50

03.8

2+00

02.4

+50

1001.1

3+00

999.2

+50

97.9

+66

97.3

4+00

96.9

+50

97.0

5+00

97.4

+50

97.9

Fair & Warm.

4-23-27

P. J. Crane

M. M.

E. F.

E. M. S.

Lt.

Rt.

4.2
50

3.9

4.5
50

Top of S. Wall

Top of S. Wall

1.8 3.8 3.8 4.6 5.1 4.8
33 313 273 18 16 12 4.2

4.5 4.5 3.6 3.5 3.4 2.8
14 20 24 28 32 33

Top of S. Wall

Top of S. Wall

2.0 4.1 4.1 4.9 5.2 4.9
33 315 275 19 17 13 4.3

4.9 4.9 4.1 4.0 3.9 2.3
16 20 22 27 31 33

Top of S. Wall

Top of S. Wall

3.7 4.9 5.0 5.9 6.0 5.9
33 31 27 23 18 12 5.4

5.8 5.9 4.7 4.7 4.7 3.2
15 20 23 27 31 33

Top of S. Wall

5.3 6.6 7.0 7.3 7.2
33 29 26 19 14 6.8

6.9 6.9 6.7 5.8 5.7 5.4
14 20 23 26.4 30.4 33

Top of S. Wall

7.8 7.9 8.6 8.4
33 21 14 12 8.1

8.3 8.2 7.6 7.6 7.5
12 18 24 30 33

Top of S. Wall

10.3 7.8 10.2 10.5
33 26 19 16 10.0

9.8 10.1 9.4 9.4 9.7
12 20 26 30 33

12.8 11.8
33 15 11.3

11.0 11.8 12.1
8 25 33

12.9
33 11.7

12.2
33

Top of S. Wall

9.1 8.9 8.6
33 15 8 8.3

8.0 8.0 8.0 6.7 6.6
13 22 28 35 37

9.1 8.6 8.4
33 20 8 8.2

8.3 8.2 8.6 8.2 6.0
10 14 18 22 33

9.0 8.4 8.0
33 21 10 7.7

7.9 8.1 8.0 3.9 3.6
13 17 20 30 33

8.6 8.2 8.0
33 19 10 7.4

7.1 7.0 6.5 3.7 3.3
10 14 21 29 33

Sta. Elev.

6 + 00 997.5

+50 998.6

7 + 00 1001.1

+43 1001.9

+63 999.8

8 + 00 995.8

+50 995.3

9 + 00 994.6

+50 993.7

10 + 00 993.8

+50 993.2

11 + 00 993.9

+50 994.0

Lt.

Rt.

8.3	8.0	7.8		7.3	7.1	6.8	2.8	2.7
<u>33</u>	<u>19</u>	<u>7</u>	7.7	<u>10</u>	<u>15</u>	<u>19</u>	<u>31</u>	<u>33</u>

7.4	7.3	7.3	6.8		6.8	3.6	2.1	0.4
<u>33</u>	<u>24</u>	<u>18</u>	<u>5</u>	6.6	<u>7</u>	<u>17</u>	<u>25</u>	<u>33</u>

6.3	5.2	4.3		3.4	2.5	1.9
<u>33</u>	<u>20</u>	<u>7</u>	4.1	<u>13</u>	<u>24</u>	<u>33</u>

6.3	5.3		3.0	2.7	2.2
<u>33</u>	<u>21</u>	3.3	<u>5</u>	<u>22</u>	<u>33</u>

6.5	5.8	3.9		4.2	3.5
<u>33</u>	<u>24</u>	<u>10</u>	5.4	<u>15</u>	<u>33</u>

7.3	7.7	8.9		9.5	9.6
<u>33</u>	<u>24</u>	<u>11</u>	9.4	<u>20</u>	<u>33</u>

9.2	7.4		10.2	10.6	10.6
<u>33</u>	<u>18</u>	10.0	<u>14</u>	<u>23</u>	<u>33</u>

4.2	4.3		4.4	4.0
<u>33</u>	<u>15</u>	4.2	<u>17</u>	<u>33</u>

4.6	4.0	3.9	4.7		5.2	5.4	5.2
<u>33</u>	<u>29</u>	<u>19</u>	<u>12</u>	5.1	<u>7</u>	<u>24</u>	<u>33</u>

4.5	4.8	5.3		5.2	5.0	4.8	4.6
<u>33</u>	<u>29</u>	<u>12</u>	5.0	<u>14</u>	<u>20</u>	<u>30</u>	<u>33</u>

4.6	4.7	5.4	5.5		4.9	5.0	5.5	5.4	5.0
<u>33</u>	<u>27</u>	<u>11</u>	<u>4</u>	5.5	<u>11</u>	<u>18</u>	<u>25</u>	<u>30</u>	<u>33</u>

6.1	5.4	5.1		4.7	4.7	5.1	4.7
<u>33</u>	<u>22</u>	<u>15</u>	4.7	<u>10</u>	<u>20</u>	<u>29</u>	<u>33</u>

5.2	5.2	5.1		4.6	4.5	4.6	4.6
<u>33</u>	<u>29</u>	<u>19</u>	4.7	<u>10</u>	<u>18</u>	<u>28</u>	<u>33</u>

Sta.

Flex.

12 +00

993.5

+50

993.5

13 +00

993.2

+50

993.2

14 +00

993.4

+50

993.7

15 +00

994.0

+50

993.7

16 +00

993.8

+50

993.9

17 +00

994.2

+50

994.4

18 +00

995.0

Lt.

Rt.

56	56	5.8		5.1	4.5	4.2		
33	27	14	5.4	12	29	33		

Top of Corp
Top of S.W.

6.4	6.3	6.1		5.7	5.5	5.9	5.5	5.5
33	25	10	6.1	12	20	31	31	37

Top of Corp
Top of S.W.

6.4	6.2	6.4		5.4	5.6	5.5	5.5	5.4
33	19	2	6.3	11	19	23	28	33

Top of Corp
Top of S.W.

6.7	6.4	5.9	6.2		5.4	5.7	5.3	5.4
33	22	3	2	6.3	12	23	29	33

Top of Corp
Top of S.W.

6.7	6.1	5.8		5.3	5.5	5.2	5.3	5.3
33	20	6	6.1	12	23	29	28	32.5

Top of Corp
Top of S.W.

7.0	6.3	5.6		5.9	5.6	5.1	5.6	5.3
33	18	2	5.8	3	6	15	23	23

Top of Corp
Top of S.W.

8.3	6.4	5.4		5.8	5.1	5.7	5.1	5.2
33	21	2	5.5	2	14	23	23	28

Top of Corp
Top of S.W.

8.6	6.8	5.6		5.8	5.3	5.8	5.0	5.0
33	20	5	5.8	3	13	23	23	28

Top of Corp
Top of S.W.

8.5	7.2	5.2	5.7		5.4	4.9	5.4	4.9
33	23	3	3	5.7	4	13	23	23

Top of Corp
Top of S.W.

7.7	5.6	4.8	5.6		5.3	4.6	5.1	4.7
33	18	4	2	5.6	4	13	23	23

Top of Corp
Top of S.W.

6.9	5.9	4.3	5.3		4.8	4.5	5.0	4.3
33	23	5	3	5.2	4	12	23	23

Top of Corp
Top of S.W.

6.1	5.1	4.0	4.7		4.6	4.2	4.8	4.2
33	22	5	2	4.8	4	12	23	23

4.3	5.0	4.2		3.8	3.5	3.9	3.4	3.2
33	13	4	4.8	4	11	22	29	33

Sta.

F/cv.

+50

995.2

19 +00

95.2

+50

94.9

20 +00

94.7

+50

94.7

21 +00

94.5

+50

94.3

22 +00

94.0

+50

93.6

23 +00

93.4

+50

93.5

24 +00

93.8

H6¹³

94.0

Lt.

Rt.

$\frac{2.5}{33}$	$\frac{2.5}{28}$	$\frac{4.2}{17}$	$\frac{4.0}{5}$	3.9	$\frac{3.8}{9}$	$\frac{4.3}{18}$	$\frac{4.0}{28}$	$\frac{3.5}{33}$
------------------	------------------	------------------	-----------------	-----	-----------------	------------------	------------------	------------------

$\frac{3.3}{33}$	$\frac{3.8}{25}$	$\frac{4.5}{13}$	$\frac{4.2}{6}$	3.9	$\frac{4.1}{12}$	$\frac{4.7}{20}$	$\frac{3.4}{32}$	$\frac{2.5}{33}$
------------------	------------------	------------------	-----------------	-----	------------------	------------------	------------------	------------------

$\frac{3.2}{33}$	$\frac{3.8}{26}$	$\frac{4.5}{18}$	$\frac{4.5}{7}$	4.2	$\frac{4.2}{8}$	$\frac{4.6}{16}$	$\frac{5.2}{20}$	$\frac{4.9}{25}$	$\frac{4.1}{33}$
------------------	------------------	------------------	-----------------	-----	-----------------	------------------	------------------	------------------	------------------

$\frac{3.7}{33}$	$\frac{4.1}{25}$	$\frac{5.1}{18}$	$\frac{4.7}{7}$	4.5	$\frac{4.4}{7}$	$\frac{4.7}{16}$	$\frac{4.8}{26}$	$\frac{4.3}{33}$
------------------	------------------	------------------	-----------------	-----	-----------------	------------------	------------------	------------------

$\frac{4.8}{33}$	$\frac{4.5}{18}$	$\frac{4.4}{8}$	4.5	$\frac{4.7}{11}$	$\frac{5.2}{17}$	$\frac{5.1}{24}$	$\frac{4.7}{30}$	$\frac{4.0}{33}$
------------------	------------------	-----------------	-----	------------------	------------------	------------------	------------------	------------------

$\frac{5.1}{33}$	$\frac{4.8}{22}$	$\frac{5.3}{20}$	$\frac{5.4}{17}$	$\frac{5.3}{11}$	4.7	$\frac{4.9}{10}$	$\frac{5.4}{13}$	$\frac{5.1}{19}$	$\frac{4.6}{26}$	$\frac{4.8}{33}$
------------------	------------------	------------------	------------------	------------------	-----	------------------	------------------	------------------	------------------	------------------

$\frac{5.1}{33}$	$\frac{5.0}{25}$	$\frac{5.6}{19}$	$\frac{5.6}{12}$	$\frac{5.4}{8}$	4.8	$\frac{5.2}{11}$	$\frac{5.7}{13}$	$\frac{5.7}{19}$	$\frac{4.8}{23}$	$\frac{4.6}{33}$
------------------	------------------	------------------	------------------	-----------------	-----	------------------	------------------	------------------	------------------	------------------

$\frac{6.0}{33}$	$\frac{5.5}{29}$	$\frac{5.0}{24}$	$\frac{6.1}{20}$	$\frac{5.9}{16}$	$\frac{5.7}{11}$	5.1	$\frac{5.6}{14}$	$\frac{6.0}{19}$	$\frac{5.0}{24}$	$\frac{5.1}{33}$
------------------	------------------	------------------	------------------	------------------	------------------	-----	------------------	------------------	------------------	------------------

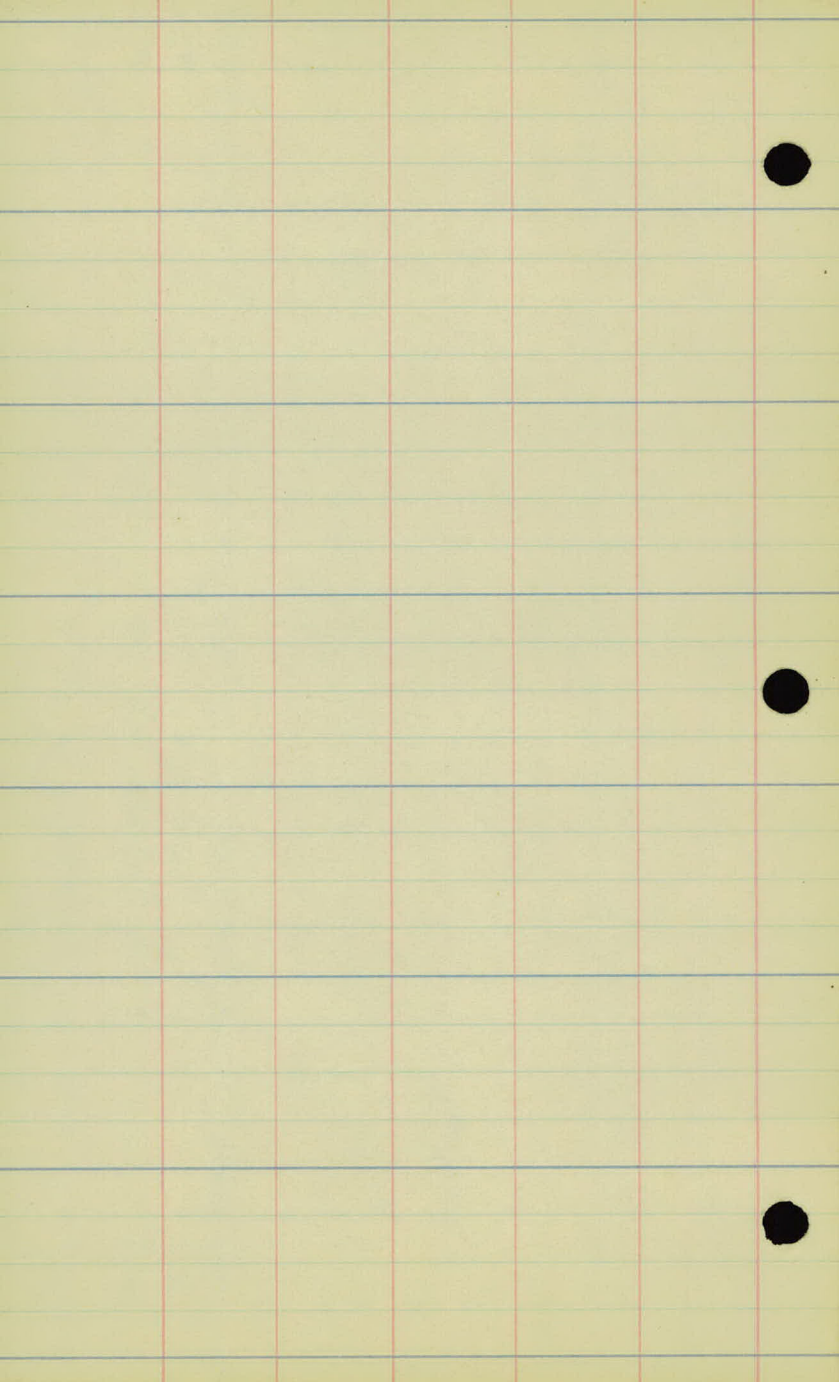
$\frac{6.2}{33}$	$\frac{6.2}{27}$	$\frac{6.1}{21}$	$\frac{6.2}{14}$	$\frac{5.8}{10}$	5.5	$\frac{5.9}{14}$	$\frac{6.2}{18}$	$\frac{5.4}{24}$	$\frac{5.3}{33}$
------------------	------------------	------------------	------------------	------------------	-----	------------------	------------------	------------------	------------------

$\frac{5.9}{33}$	$\frac{5.8}{23}$	$\frac{6.4}{21}$	$\frac{6.3}{13}$	5.7	$\frac{6.0}{9}$	$\frac{6.2}{13}$	$\frac{6.5}{19}$	$\frac{5.6}{23}$	$\frac{5.6}{33}$
------------------	------------------	------------------	------------------	-----	-----------------	------------------	------------------	------------------	------------------

$\frac{5.6}{33}$	$\frac{5.8}{23}$	$\frac{7.0}{20}$	$\frac{6.3}{13}$	5.7	$\frac{6.3}{12}$	$\frac{6.7}{15}$	$\frac{6.7}{20}$	$\frac{5.8}{25}$	$\frac{6.3}{33}$
------------------	------------------	------------------	------------------	-----	------------------	------------------	------------------	------------------	------------------

$\frac{6.9}{33}$	$\frac{6.7}{20}$	$\frac{5.8}{14}$	$\frac{5.9}{11}$	5.4	$\frac{5.7}{13}$	$\frac{6.5}{21}$	$\frac{7.2}{23}$	$\frac{7.2}{24}$	$\frac{6.1}{28}$	$\frac{6.4}{33}$
------------------	------------------	------------------	------------------	-----	------------------	------------------	------------------	------------------	------------------	------------------

$\frac{5.2}{33}$	5.3	$\frac{5.3}{33}$
------------------	-----	------------------



Proj H27-00.

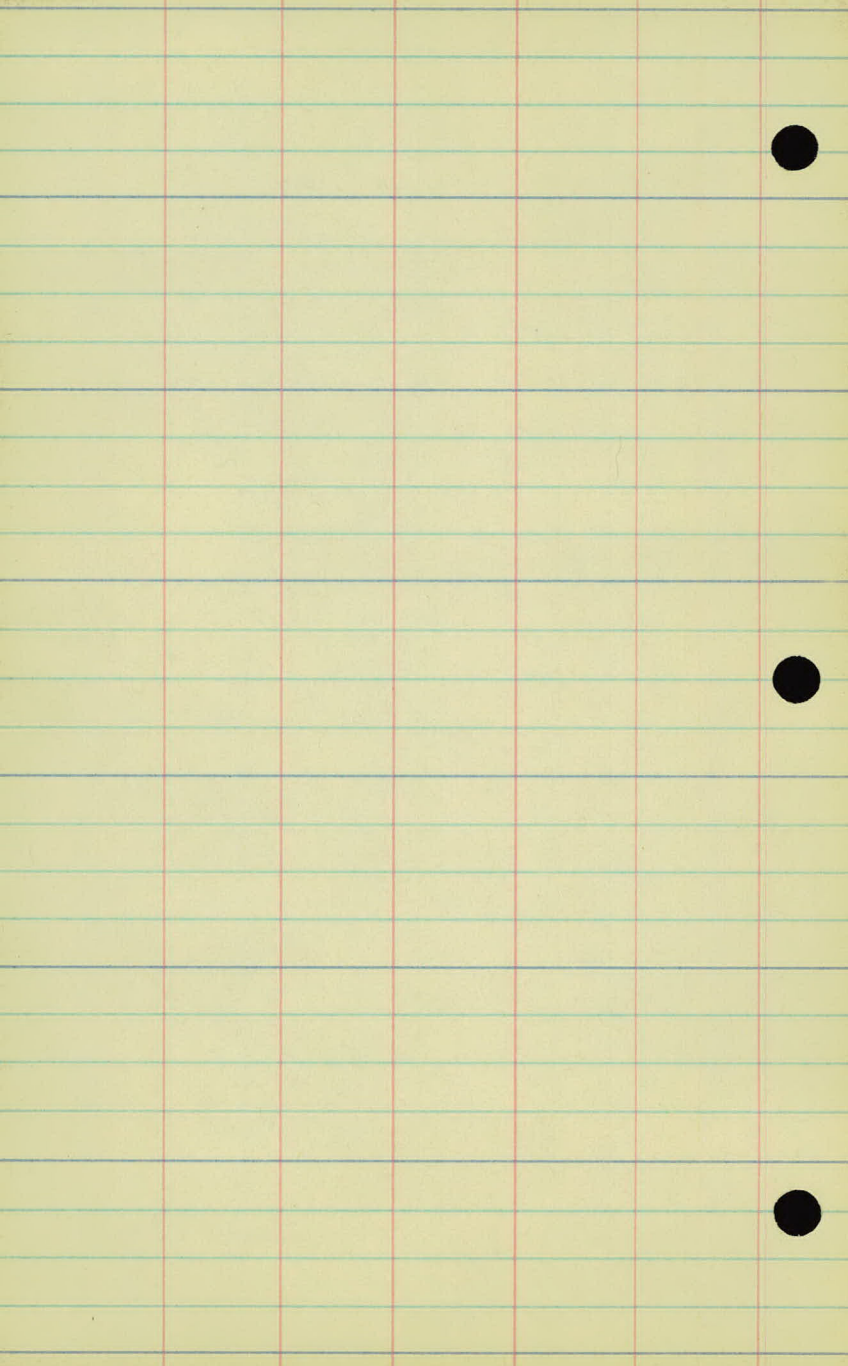
19th Ave.

Side Walk & Curb Elevs.

Sta.	+	H. I.	-	Elev.
B. M.	3.53	999.52		995.99

B. M.		3.53	995.99
-------	--	------	--------

Right Top of Side Wall		Right Top of Curp.		
Rad	Elev.	Rad	Elev	Sta.
5.49	994.03	5.41	994.11	Beg. of S. Wall & Curp on Rt.
5.53	93.99	5.38	94.14	13+00
5.38	94.14	5.37	94.15	13+50
5.31	94.21	5.22	94.30	14+00
5.24	94.28	5.25	94.27	14+50
5.20	94.32	5.08	94.44	15+00
5.01	94.51	4.96	94.56	15+50
4.77	93.73	4.85	93.67	16+00
4.50	95.02	4.70	94.82	16+50
4.20	95.32	4.36	95.16	17+00
4.03	95.49	4.18	95.34	17+30
		4.02	95.50	17+71 End of Curp Rt.
3.85	95.67			17+76 End of S. Wall Rt.



Proj. # 27-00

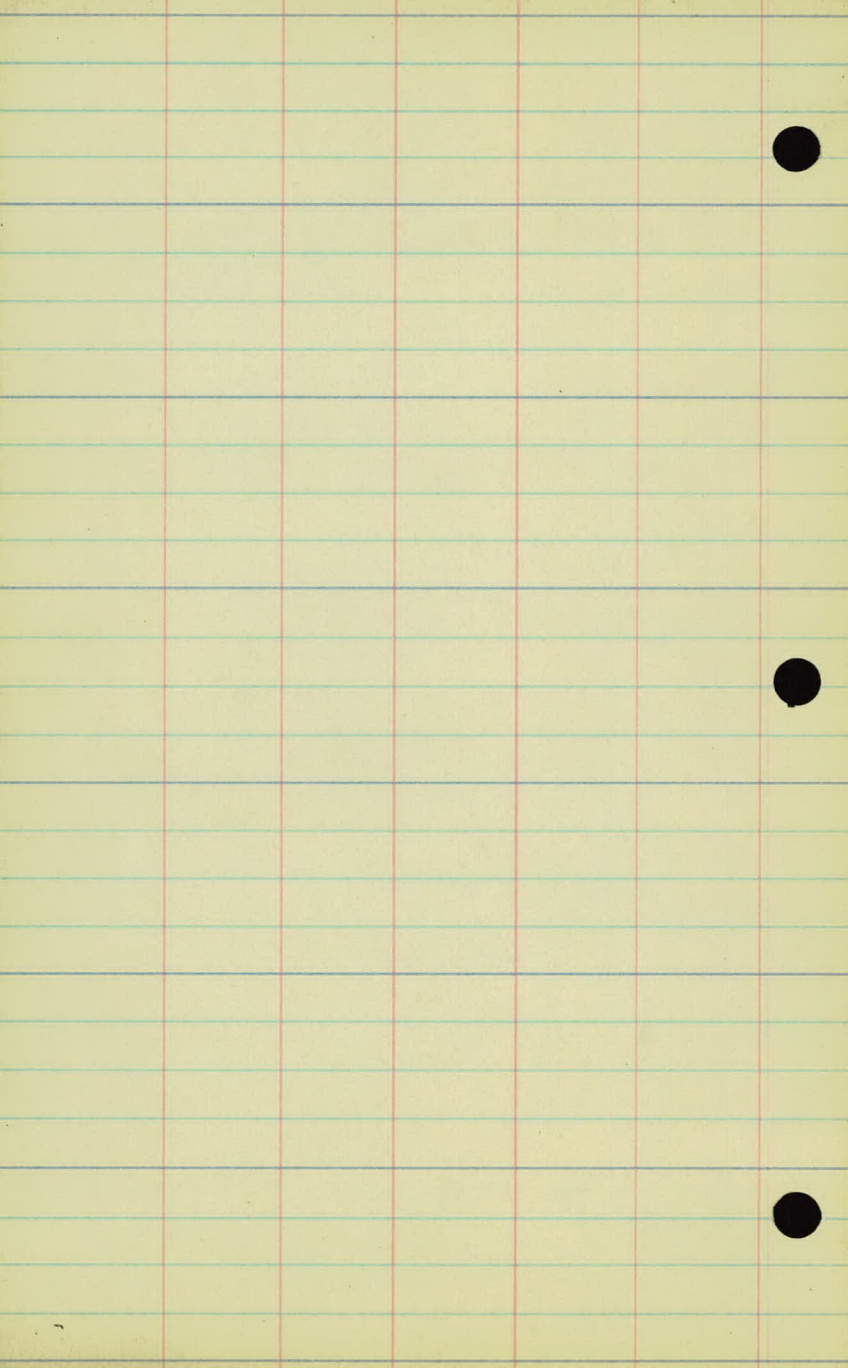
17th Ave.

Top of Side Walk Elevs.

Sta.	+	H.I.	-	Elev.
B.M.	1.53	1009.22		1007.69

B.M.			1.53	1007.69
------	--	--	------	---------

Lt.				Pt.			
Req. of	Sta.	Elev.	Req.	Req.	Elev.	Sta.	
S. W ₉ /K. L.	0+27	1004.05	3.64	3.45	1004.24	0+25	Req. S. W ₉ /K. R.
	0+50	03.93	3.76	3.50	04.19	0+50	
	1+00	03.65	4.04	3.92	04.77	1+00	
	1+50	02.74	4.95	4.68	03.01	1+50	
End of S. W ₉ /K. L.	1+70	02.36	5.33	5.76	01.93	2+00	
				7.58	1000.11	2+50	
				9.42	998.27	3+00	
				10.85	996.84	3+32	End of S. W ₉ /K. R.



Proj. # 27-00

19th Ave.

Check Levels from Co. Ref. 'C'
& East Co. line to 18th Ave & Margaret St.

Stg.	+	H.I.	-	E/cv.
B.M.	7.71	998.88		991.17
B.M.	5.55	999.50	4.93	993.95
T.P.	1.28	999.81	0.97	998.53
B.M.	2.98	998.97	3.82	995.99
B.M.	5.61	1004.06	0.52	998.45
T.P.	7.06	1009.92	1.20	1002.86
B.M.			2.23	1007.69

2-15-27

E. F. Fritz
H. M.

SpK in T.P. Int. Co. Rd C. & E. Co. line.

SpK. IN TWIN MAPLE

19TH AVE + E. CO. LINE

FIRE HYD.

CHARLES ST. + 19TH AVE. N.E.

SpK. IN, 30" COTTONWOOD

1
FIRE HYD.

COR. 18TH AVE. + MARGARET STS.

